SEQUENCE LISTING

<110>   Lexow, Preben

<120>   Method of cloning and producing fragment chains with readable
information content

<130>   1181-256

<140>   US 10/019258
<141>   2001-12-28

<150>   PCT/GB00/02512
<151>   2000-06-27

<150>   NO 20003191
<151>   2000-06-20

<150>   NO 20003190
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<150>   NO 19991325
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<160>   105

<170>   PatentIn version 3.1

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<222>   (8)..(9)
<223>   N is any nucleotide.

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cgagcgcctc cagtgcagcg gag   23

<210> 4
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<220>
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tatcgcgcct ccagtgcagc ggag   24

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<400> 5
ctctgcgcct ccagtgcagc ggag   24

<210> 6
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<400> 6
ctctctccgc tgcactggag gcgc   24

<210> 7
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<400> 7
caacgcgcct ccagtgcagc ggag   24

<210> 8
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<223> BbvI overhang 9b

<400> 8
ggtagcgcct ccagtgcagc ggag   24

<210> 9
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<400> 9
aagagctccg ctgcactgga ggcgc   25

<210> 10
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<400> 10
ctcttctccg ctgcactgga ggcgc   25

<210> 11
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<220>
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<220>
<221>  misc_feature
<222>  (19)..(24)
<223>  N is any nucleotide.


<400>  11
gcagcgacca tgagtccanc tcnngtggat gacgc                                    35


<210>  12
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<220>
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<220>
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<222>  (19)..(37)
<223>  N is any nucleotide with the proviso that the DNA sequence from 3
       2 to 37 is not palindromic.


<400>  12
gcagcgacca tgagtccanc tcnngtggat gnnnnnn                                  37


<210>  13
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<212>  DNA
<213>  Artificial Sequence

<220>
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<220>
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<222>  (19)..(38)
<223>  N is any nucleotide with the proviso that the DNA sequence from 3
       3 to 38 is not palindromic.


<400>  13
gcagcgacca tgagtccanc tcnngtggat gnnnnnnn                                 38


<210>  14
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4

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<220>
<223>  Initiation linker

<220>
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<222>  (19)..(39)
<223>  N is any nucleotide with the proviso that the DNA sequence from 3
       4 to 39 is not palindromic.


<400>  14
gcagcgacca tgagtccanc tcnngtggat gnnnnnnnn                               39


<210>  15
<211>  40
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<213>  Artificial Sequence

<220>
<223>  Initiation linker

<220>
<221>  misc_feature
<222>  (19)..(40)
<223>  N is any nucleotide with the proviso that the DNA sequence from 3
       5 to 40  is not palindromic.


<400>  15
gcagcgacca tgagtccanc tcnngtggat gnnnnnnnnn                              40


<210>  16
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<212>  DNA
<213>  Artificial Sequence

<220>
<223>  Initiation linker

<220>
<221>  misc_feature
<222>  (19)..(41)
<223>  N is any nucleotide with the proviso that the DNA sequence from 3
       6 to 41 is not palindromic.


<400>  16
gcagcgacca tgagtccanc tcnngtggat gacgcnnnnn n                           41


<210>  17
<211>  42
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<212>    DNA
<213>    Artificial Sequence

<220>
<223>    Initiation linker

<220>
<221>    misc_feature
<222>    (19)..(42)
<223>    N is any nucleotide with the proviso that the DNA sequence from 3
         7 to 42 is not palindromic.


<400>    17
gcagcgacca tgagtccanc tcnngtggat gacgcnnnnn nn                          42


<210>    18
<211>    43
<212>    DNA
<213>    Artificial Sequence

<220>
<223>    Initiation linker

<220>
<221>    misc_feature
<222>    (19)..(43)
<223>    N is any nucleotide with the proviso that the DNA sequence from 3
         8 to 43 is not palindromic.


<400>    18
gcagcgacca tgagtccanc tcnngtggat gacgcnnnnn nnn                         43


<210>    19
<211>    44
<212>    DNA
<213>    Artificial Sequence

<220>
<223>    Initiation linker

<220>
<221>    misc_feature
<222>    (19)..(44)
<223>    N is any nucleotide with the proviso that the DNA sequence from 3
         9 to 44 is not palindromic.


<400>    19
gcagcgacca tgagtccanc tcnngtggat gacgcnnnnn nnnn                        44
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<210>   20
<211>   45
<212>   DNA
<213>   Artificial Sequence

<220>
<223>   Initiation linker

<220>
<221>   misc_feature
<222>   (19)..(45)
<223>   N is any nucleotide with the proviso that the DNA sequence from 4
        0 to 45 is not palindromic.


<400>   20
gcagcgacca tgagtccanc tcnngtggat gacgcnnnnn nnnnn                        45


<210>   21
<211>   46
<212>   DNA
<213>   Artificial Sequence

<220>
<223>   Initiation linker

<220>
<221>   misc_feature
<222>   (19)..(46)
<223>   N is any nucleotide with the proviso that the DNA sequence from 4
        1 to 46 is not palindromic.


<400>   21
gcagcgacca tgagtccanc tcnngtggat gacgcnnnnn nnnnnn                       46


<210>   22
<211>   50
<212>   DNA
<213>   Artificial Sequence

<220>
<223>   Synthetic oligonucleotide

<400>   22
taatacgact cactatacca caagtttgta caaaaaagca ggctctattc                   50


<210>   23
<211>   56
<212>   DNA
<213>   Artificial Sequence
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<220>
<223> Synthetic oligonucleotide

<400> 23
taggaagaat agagcctgct tttttgtaca aacttgtggt atagtgagtc gtatta   56

<210> 24
<211> 45
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide

<400> 24
ttcctatgca gtggaccact ttgtacaaga aagctgggtt gcagt   45

<210> 25
<211> 45
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide

<400> 25
gcaactactg caacccagct ttcttgtaca aagtggtcca ctgca   45

<210> 26
<211> 45
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide

<400> 26
agttgcttga cgccacaagt ttgtacaaaa aagcaggctt tgacg   45

<210> 27
<211> 45
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide

<400> 27
cgacatcgtc aaagcctgct tttttgtaca aacttgtggc gtcaa   45

<210> 28
<211> 45
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide

<400> 28
atgtcgaagg gcggaccact ttgtacaaga aagctgggta agggc   45

<210> 29
<211> 45
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide

<400> 29
gacagggccc ttacccagct ttcttgtaca aagtggtccg ccctt   45

<210> 30
<211> 58
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide

<400> 30
cctgtcatgt ggaccacttt gtacaagaaa gctgggtttc tatagtgtca cctaaatc   58

<210> 31
<211> 52
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide

<400> 31
gatttaggtg acactataga aacccagctt tcttgtacaa agtggtccac at   52

<210> 32
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Synthetic oligonucleotide

```
<400>   32
taatacgact cactatacca                                                  20


<210>   33
<211>   17
<212>   DNA
<213>   Artificial Sequence

<220>
<223>   Synthetic oligonucleotide

<400>   33
taatacgact cactata                                                     17


<210>   34
<211>   21
<212>   DNA
<213>   Artificial Sequence

<220>
<223>   Synthetic oligonucleotide

<400>   34
aagatatcac agtggattta g                                                21


<210>   35
<211>   21
<212>   DNA
<213>   Artificial Sequence

<220>
<223>   Fragment chain 2 terminal

<400>   35
ttctatagtg tcacctaaat c                                                21


<210>   36
<211>   46
<212>   DNA
<213>   Artificial Sequence

<220>
<223>   Primer

<400>   36
tcaacggcaa cctacatgac catccgattt aggtgacact atagaa                     46


<210>   37
<211>   47
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<212>   DNA
<213>   Artificial Sequence

<220>
<223>   Primer

<400>   37
gtcatgtagg ttgccgttga tccatcctaa tacgactcac tatagca                    47


<210>   38
<211>   20
<212>   DNA
<213>   Artificial Sequence

<220>
<223>   Fragment chain 3 terminal

<400>   38
tgctatagtg agtcgtatta                                                  20


<210>   39
<211>   20
<212>   DNA
<213>   Artificial Sequence

<220>
<223>   Initiation linker 1 (s)

<400>   39
attcggtcga gatgctctca                                                  20


<210>   40
<211>   24
<212>   DNA
<213>   Artificial Sequence

<220>
<223>   Initiation linker 1 (as)

<400>   40
cgactgagag catctcgacc gaat                                             24


<210>   41
<211>   21
<212>   DNA
<213>   Artificial Sequence

<220>
<223>   Initiation linker 2

<400>   41
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gcgttactga gcgtagctct g                                               21


<210>   42
<211>   25
<212>   DNA
<213>   Artificial Sequence

<220>
<223>   Initiation linker 2 (as)

<400>   42
ctctcagagc tacgctcagt aacgc                                           25


<210>   43
<211>   24
<212>   DNA
<213>   Artificial Sequence

<220>
<223>   Propagation linker (s)

<220>
<221>   misc_feature
<222>   (20)..(24)
<223>   N is any nucleotide.


<400>   43
tgctgcagga gcgaatctcn nnnn                                            24


<210>   44
<211>   19
<212>   DNA
<213>   Artificial Sequence

<220>
<223>   Propagation linker (as)

<400>   44
gagattcgct cctgcagca                                                  19


<210>   45
<211>   24
<212>   DNA
<213>   Artificial Sequence

<220>
<223>   Labeling linker 2 (s)

<400>   45
ctcttgctat agtgagtcgt atta                                            24
```

<210> 46
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Labeling linker 2 (as)

<400> 46
taatacgact cactatagca   20

<210> 47
<211> 30
<212> DNA
<213> Artificial Sequence

<220>
<223> Termination linker 1 (s)

<400> 47
aagagctcag gtcattgacg tagctatgaa   30

<210> 48
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Termination linker 1/2 (as)

<400> 48
agctacgtca atgacctgag   20

<210> 49
<211> 10
<212> DNA
<213> Artificial Sequence

<220>
<223> Termination linker 1 (short version)

<400> 49
aagagatgaa   10

<210> 50
<211> 29
<212> DNA
<213> Artificial Sequence

13

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<220>
<223>  Termination linker 2 (s)

<400>  50
accgctcagg tcattgacgt agcttcatt                                    29


<210>  51
<211>  11
<212>  DNA
<213>  Artificial Sequence

<220>
<223>  0 starting fragment, position 1

<400>  51
gggggggggaa a                                                      11


<210>  52
<211>  11
<212>  DNA
<213>  Artificial Sequence

<220>
<223>  0 starting fragment, position 2

<400>  52
gggggggggaa c                                                      11


<210>  53
<211>  12
<212>  DNA
<213>  Artificial Sequence

<220>
<223>  0 starting fragment, position 2

<400>  53
cccccccccct tt                                                     12


<210>  54
<211>  10
<212>  DNA
<213>  Artificial Sequence

<220>
<223>  1 starting fragment, postion 2

<400>  54
aaaaaaaaac                                                         10
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```
<210>   55
<211>   11
<212>   DNA
<213>   Artificial Sequence

<220>
<223>   0 starting fragment, postion 7

<400>   55
gggggggggcc g                                                           11


<210>   56
<211>   12
<212>   DNA
<213>   Artificial Sequence

<220>
<223>   0 starting fragment, postion 7

<400>   56
cccccccccg cg                                                           12


<210>   57
<211>   10
<212>   DNA
<213>   Artificial Sequence

<220>
<223>   1 starting fragment, postion 7

<400>   57
aaaaaaaccg                                                              10


<210>   58
<211>   11
<212>   DNA
<213>   Artificial Sequence

<220>
<223>   1 starting fragment, postion 7

<400>   58
tttttttttgc g                                                           11


<210>   59
<211>   12
<212>   DNA
<213>   Artificial Sequence

<220>
<223>   0 starting fragment, postion 8
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<400>   59
cccccccccc gg                                                    12


<210>   60
<211>   11
<212>   DNA
<213>   Artificial Sequence

<220>
<223>   1 starting fragment, postion 8

<400>   60
ttttttttcg g                                                     11


<210>   61
<211>   14
<212>   DNA
<213>   Artificial Sequence

<220>
<223>   Fragment 0, position 1.2

<400>   61
aaagggggggg gaaa                                                 14


<210>   62
<211>   13
<212>   DNA
<213>   Artificial Sequence

<220>
<223>   Fragment 1, position 1.3

<400>   62
aacaaaaaaa aaa                                                   13


<210>   63
<211>   14
<212>   DNA
<213>   Artificial Sequence

<220>
<223>   Fragment 0, position 8.1

<400>   63
tttcccccccc cccg                                                 14


<210>   64
<211>   13
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<212>    DNA
<213>    Artificial Sequence

<220>
<223>    Fragment 1, position 8.1

<400>    64
tttttttttt tcg                                                              13


<210>    65
<211>    14
<212>    DNA
<213>    Artificial Sequence

<220>
<223>    Fragment 0, position 8.2

<400>    65
gttccccccc cccg                                                             14


<210>    66
<211>    13
<212>    DNA
<213>    Artificial Sequence

<220>
<223>    Fragment 1, position 8.2

<400>    66
gttttttttt tcg                                                              13


<210>    67
<211>    14
<212>    DNA
<213>    Artificial Sequence

<220>
<223>    Fragment 0, position 8.3

<400>    67
cttccccccc cccg                                                             14


<210>    68
<211>    13
<212>    DNA
<213>    Artificial Sequence

<220>
<223>    Fragment 1, position 8.3

<400>    68
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cttttttttt tcg   13

<210>   69
<211>   31
<212>   DNA
<213>   Artificial Sequence

<220>
<223>   Initiation linker

<220>
<221>   misc_feature
<222>   (8)..(13)
<223>   N is any nucleotide.

<400>   69
catccacnng agntggactc atggtcgctg c   31

<210>   70
<211>   32
<212>   DNA
<213>   Artificial Sequence

<220>
<223>   Initiation linker

<220>
<221>   misc_feature
<222>   (1)..(14)
<223>   N is any nucleotide.

<400>   70
ncatccacnn gagntggact catggtcgct gc   32

<210>   71
<211>   33
<212>   DNA
<213>   Artificial Sequence

<220>
<223>   Initiation linker

<220>
<221>   misc_feature
<222>   (1)..(15)
<223>   N is any nucleotide.

<400>   71
nncatccacn ngagntggac tcatggtcgc tgc   33

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<210>   72
<211>   34
<212>   DNA
<213>   Artificial Sequence

<220>
<223>   Initiation linker

<220>
<221>   misc_feature
<222>   (1)..(16)
<223>   N is any nucleotide.


<400>   72
nnncatccac nngagntgga ctcatggtcg ctgc                              34


<210>   73
<211>   35
<212>   DNA
<213>   Artificial Sequence

<220>
<223>   Initiation linker

<220>
<221>   misc_feature
<222>   (12)..(17)
<223>   N is any nucleotide.


<400>   73
gcgtcatcca cnngagntgg actcatggtc gctgc                             35


<210>   74
<211>   36
<212>   DNA
<213>   Artificial Sequence

<220>
<223>   Initiation linker

<220>
<221>   misc_feature
<222>   (1)..(18)
<223>   N is any nucleotide.


<400>   74
ngcgtcatcc acnngagntg gactcatggt cgctgc                            36
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<210>    75
<211>    37
<212>    DNA
<213>    Artificial Sequence

<220>
<223>    Initiation linker

<220>
<221>    misc_feature
<222>    (1)..(19)
<223>    N is any nucleotide.


<400>    75
nngcgtcatc cacnngagnt ggactcatgg tcgctgc                              37


<210>    76
<211>    38
<212>    DNA
<213>    Artificial Sequence

<220>
<223>    Initiation linker

<220>
<221>    misc_feature
<222>    (1)..(20)
<223>    N is any nucleotide.


<400>    76
nnngcgtcat ccacnngagn tggactcatg gtcgctgc                             38


<210>    77
<211>    39
<212>    DNA
<213>    Artificial Sequence

<220>
<223>    Initiation linker

<220>
<221>    misc_feature
<222>    (1)..(21)
<223>    N is any nucleotide.


<400>    77
nnnngcgtca tccacnngag ntggactcat ggtcgctgc                            39
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<210>   78
<211>   40
<212>   DNA
<213>   Artificial Sequence

<220>
<223>   Initiation linker

<220>
<221>   misc_feature
<222>   (1)..(22)
<223>   N is any nucleotide.


<400>   78
nnnnngcgtc atccacnnga gntggactca tggtcgctgc                              40


<210>   79
<211>   10
<212>   DNA
<213>   Artificial Sequence

<220>
<223>   Propagation linker HgaI

<220>
<221>   misc_feature
<222>   (1)..(5)
<223>   N is any nucleotide.


<400>   79
nnnnngcgtc                                                              10


<210>   80
<211>   32
<212>   DNA
<213>   Artificial Sequence

<220>
<223>   Gene A from PHIX174

<400>   80
gctggaggcc tccactatga aatcgcgtag ag                                     32


<210>   81
<211>   28
<212>   DNA
<213>   Artificial Sequence

<220>
<223>   Gene A from PHIX174
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21

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<400>   81
ctggcggaaa atgagaaaat tcgaccta                                         28


<210>   82
<211>   13
<212>   DNA
<213>   Artificial Sequence

<220>
<223>   Recognition motif of the N-terminal part of the hsdS subunit of S
        tyR 1241

<220>
<221>   misc_feature
<222>   (4)..(9)
<223>   N is any nucleotide.


<400>   82
gaannnnnnr tcg                                                         13


<210>   83
<211>   14
<212>   DNA
<213>   Artificial Sequence

<220>
<223>   Recognition motif of the C-terminal part of the hsdS subunit of S
        tyR 1241

<220>
<221>   misc_feature
<222>   (4)..(10)
<223>   N is any nucleotide.


<400>   83
tcannnnnnn rttc                                                        14


<210>   84
<211>   13
<212>   DNA
<213>   Artificial Sequence

<220>
<223>   Recognition motif of a new enzyme made by merging the N- and C-te
        rminal parts of the hsdS subunit of StyR 1241

<220>
<221>   misc_feature
<222>   (4)..(9)
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<223> N is any nucleotide.

<400> 84
gaannnnnnr ttc   13

<210> 85
<211> 40
<212> DNA
<213> Artificial Sequence

<220>
<223> Ligated initiation linker

<220>
<221> misc_feature
<222> (1)..(22)
<223> N is any nucleotide with the proviso that the sequence from 1 to
      6 is complemantary to the sequence from 40 to 35 of SEQ ID NO: 15
      .

<400> 85
nnnnnnnnnc atccacnnga gntggactca tggtcgctgc   40

<210> 86
<211> 47
<212> DNA
<213> Artificial Sequence

<220>
<223> An example of sequences that generate 5'-4 base overhangs by BbsI
      and Esp3I

<220>
<221> misc_feature
<222> (1)..(47)
<223> N is any nucleotide.

<400> 86
nnnnnnnnga gcngagacgn nnnnngaaga cnngagcnnn nnnnnnn   47

<210> 87
<211> 47
<212> DNA
<213> Artificial Sequence

<220>
<223> An example of sequences that generate 5'-4 base overhangs by BbsI
      and Esp3I

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<220>
<221>  misc_feature
<222>  (1)..(47)
<223>  N is any nucleotide.


<400>  87
nnnnnnnnnn gctcnngtct tcnnnnnncg tctcngctcn nnnnnnn                       47


<210>  88
<211>  29
<212>  DNA
<213>  Artificial Sequence

<220>
<223>  An example of 5' -4 base overhangs generated by BbsI and Esp3I cl
       eavage

<220>
<221>  misc_feature
<222>  (5)..(25)
<223>  N is any nucleotide.


<400>  88
gagcngagac gnnnnnngaa gacnngagc                                          29


<210>  89
<211>  25
<212>  DNA
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<220>
<223>  An example of 5' -4 base overhangs generated by BbsI and Esp3I cl
       eavage

<220>
<221>  misc_feature
<222>  (5)..(25)
<223>  N is any nucleotide.


<400>  89
gctcnngtct tcnnnnnncg tctcn                                              25


<210>  90
<211>  22
<212>  DNA
<213>  Artificial Sequence

<220>
<223>  An example of ligation products between 5' -4 base overhangs gene
```

24

rated by BbsI and Esp3I cleavage

```
<220>
<221>  misc_feature
<222>  (1)..(22)
<223>  N is any nucleotide.
```

```
<400>  90
nnnnnnnnga gcnnnnnnnn nn                                              22
```

```
<210>  91
<211>  22
<212>  DNA
<213>  Artificial Sequence
```

```
<220>
<223>  An example of ligation products between 5' -4 base overhangs gene
       rated by BbsI and Esp3I cleavage
```

```
<220>
<221>  misc_feature
<222>  (1)..(22)
<223>  N is any nucleotide.
```

```
<400>  91
nnnnnnnnnn gctcnnnnnn nn                                              22
```

```
<210>  92
<211>  51
<212>  DNA
<213>  Artificial Sequence
```

```
<220>
<223>  An example of sequences that generate two 3' 3 base overhangs by
       BsaXI
```

```
<220>
<221>  misc_feature
<222>  (1)..(51)
<223>  N is any nucleotide.
```

```
<400>  92
nnnnnnnnga gnnnnnnnnn acnnnnnctc cnnnnnnnga gnnnnnnnnn n              51
```

```
<210>  93
<211>  51
<212>  DNA
<213>  Artificial Sequence
```

25

<220>
<223>   An example of sequences that generate two 3' 3 base overhangs by
        BsaXI

<220>
<221>   misc_feature
<222>   (1)..(51)
<223>   N is any nucleotide.

<400>   93
nnnnnnnnnn ctcnnnnnnn ggagnnnnng tnnnnnnnnn ctcnnnnnnn n   51

<210>   94
<211>   30
<212>   DNA
<213>   Artificial Sequence

<220>
<223>   An example of 3' 3 base overhangs generated by BsaXI cleavage

<220>
<221>   misc_feature
<222>   (1)..(27)
<223>   N is any nucleotide.

<400>   94
nnnnnnnnna cnnnnnctcc nnnnnnngag   30

<210>   95
<211>   30
<212>   DNA
<213>   Artificial Sequence

<220>
<223>   An example of 3' 3 base overhangs generated by BsaXI cleavage

<220>
<221>   misc_feature
<222>   (1)..(27)
<223>   N is any nucleotide.

<400>   95
nnnnnnnngga gnnnnngtnn nnnnnnnctc   30

<210>   96
<211>   44
<212>   DNA
<213>   Artificial Sequence

<220>
<223> An example of sequences that generated blunt ends by MlyI

<220>
<221> misc_feature
<222> (1)..(44)
<223> N is any nucleotide.

<400> 96
nnnnnnnnnn nnnnnnnnnn nnnngagtcn nnnnnnnnnn nnnn   44

<210> 97
<211> 26
<212> DNA
<213> Artificial Sequence

<220>
<223> An example of 3' 3 base overhangs generated by MlyI cleavage

<220>
<221> misc_feature
<222> (1)..(26)
<223> N is any nucleotide.

<400> 97
nnnnnnnnnn nnnnnngagt cnnnnn   26

<210> 98
<211> 30
<212> DNA
<213> Artificial Sequence

<220>
<223> Gene A from PHIX174

<400> 98
ctacgcgatt tcatagtgga ggcctccagc   30

<210> 99
<211> 28
<212> DNA
<213> Artificial Sequence

<220>
<223> Gene A from PHIX174

<400> 99
ggtcgaattt tctcattttc cgccagca   28

27

```
<210>  100
<211>  10
<212>  DNA
<213>  Artificial Sequence

<220>
<223>  1 starting fragment, position 1

<400>  100
aaaaaaaaaa                                                    10


<210>  101
<211>  11
<212>  DNA
<213>  Artificial Sequence

<220>
<223>  1 starting fragment, position 2

<400>  101
tttttttttt t                                                  11


<210>  102
<211>  13
<212>  DNA
<213>  Artificial Sequence

<220>
<223>  Fragment 1, position 1.2

<400>  102
aaaaaaaaaa aaa                                                13


<210>  103
<211>  14
<212>  DNA
<213>  Artificial Sequence

<220>
<223>  Fragment 0, position 1.3

<400>  103
aacgggggggg gaaa                                              14


<210>  104
<211>  14
<212>  DNA
<213>  Artificial Sequence

<220>
<223>  Fragment 0, position 8.3
```

```
<400>  104
cttccccccc cccg                                                    14


<210>  105
<211>  13
<212>  DNA
<213>  Artificial Sequence

<220>
<223>  Fragment 1, position 8.3

<400>  105
ctttttttttt tcg                                                    13
```